TITLE

by

Kraig Andrews

DISSERTATION

Submitted to the Graduate School

of Wayne State University

in partial fulfillment of the requirements

for the degree of

DOCTOR OF PHILOSOPHY

2008

MAJOR: Physics

Approved by:

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Advisor

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This is a dedication.

"The fact that we live at the bottom of a deep gravity well, on the surface of a gas covered planet going around a nuclear fireball 90 million miles away and think this to be normal is obviously some indication of how skewed our perspective tends to be."

— Douglas Adams, The Salmon of Doubt: Hitchhiking the Galaxy One Last Time

ABSTRACT

TITLE HERE

by

AUTHOR NAME

August 2008

Advisor: Professor Your Prof

Major: Physics

Degree: Doctor of Philosophy

Abstract here

ACKNOWLEDGEMENTS

Acknowledgements here

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List of Symbols

Symbol	Description	Unit
E_{F}	Fermi energy	eV
σ	conductivity	µS
V_{bg}	backgate voltage	V
V_{ds}	drain voltage	V
I_{ds}	drain current	V
χ	electron affinity	V
μ_{H}	Hall mobility	$\mathrm{cm^2\,V^{-1}\,s^{-1}}$
μ_{FE}	field-effect mobility	$\mathrm{cm^2\,V^{-1}\,s^{-1}}$

List of Physical Constants

Symbol	**Quantity**	**Value**
k_{B}	Boltzmann's constant	$1.380\,66 \times 10^{-23}\,\mathrm{J\,K^{-1}}$
ϵ_0	dielectric constant	$8.854\,18 \times 10^{-12}\,\mathrm{A^2\,s^4\,kg^{-1}\,m^{-3}}$
e	elementary charge	$1.602\,18 \times 10^{-19}\,\mathrm{C}$
eV	electron volt	$1.602\,18 \times 10^{-19}\,\mathrm{J}$
c	speed of light	$2.997\,92 \times 10^{8}\,\mathrm{m\,s^{-1}}$
h	Planck's constant	$6.626\,07 \times 10^{-34}\,\mathrm{J\,s}$
$\hbar$	reduced Planck's constant	$1.054\,57 \times 10^{-34}\,\mathrm{J\,s}$ $(h/2\pi)$
$R_{\mathrm{K-90}}$	von Klitzing constant	$25\,812.807\,455\,55\,\Omega$
m_e	electron mass	$9.109\,383 \times 10^{-31}\,\mathrm{kg}$

Source: CODATA Recommened Values of the Fundamental Physics Constants: 2014, Mohr *et al.*[1]

Acronyms

SB Schottky barrier

Chapter 1

Chapter Title

1.1 Section Title

Contents here with Schottky barrier (SB).

References

[1] P. J. Mohr, D. B. Newell, and B. N. Taylor. Codata recommended values of the fundamental physical constants: 2014. *ArXiv e-prints*, jul 2015.

Autobiographical Statement

Name: Your Name

Education:
M.S. Physics, Some University, City, State, Year
M.S. Physics, Some Other University, City, State, Year
Professional Experience:
Some Job, Dept. of Physics and Astronomy, Somewhere, Year
Publications: "Paper Title" Journal Name

Your autobiographical statement.